

Standards of Public Land Health

Evaluation of 63038 LITTLE HASPEROS Allotment

[11/30/2010]

The Roswell Field Office conducted rangeland health assessments at 1 study site within 63038 LITTLE HASPEROS. The assessments looked at the Soil/Site Stability, Hydrologic Function and Biotic Integrity indicators within the vicinity of each study site. Existing monitoring data was incorporated into and in support of the field assessment. The summary of each assessment is attached and shown in the following table.

Study Area or Assessment Area	UPLAND			BIOTIC			RIPARIAN		
	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet	Meets	Monitor an Indicator	Does Not Meet
63038-ANTELOPE-E083	X			X			N/A		

Twenty-two (22) indicators for Rangeland Health were evaluated for public land on the Little Hasperos allotment, 63038. Ten of these assessed soil site stability, 11 hydrologic functions and 13 assessed biotic integrity. These qualitative assessments in conjunction with quantitative information gathered from previous data collected at the trend study plot locations within the allotment were utilized to make rangeland health determinations. Quantitative evaluations are performed by the Roswell Field Office interdisciplinary teams, which include some or all of the following: ground and vegetative cover and composition, production, frequency and ecological condition. The collections which were initiated in the late 1970's/early 1980's, are scheduled and conducted approximately every 5 years. This allotment is in the "C" (Custodial) category.

This allotment contains 890 acres of public land. The study is located on a Shallow CP-3 ecological site. All of the indicators were rated as either "None to Slight" or "Slight to Moderate" departure from the ecological site description. Two of the indicators noted an increase in the amount of cholla - Invasive Plants and Functional/Structural Groups, but not to the extent that warranted a "Moderate" rating or a "Moderate" degree of departure from the ecological site description.

There are no riparian areas on the public land within this allotment.

Recommendations: With all of the indicators falling in the None to Slight category or Slight to Moderate, this allotment is rated as "Meeting" the standards for Rangeland Health. Continue the rangeland monitoring studies to insure proper stocking rates are maintained and that the perennial grass cover and good plant composition remains. In the future, there is a potential to work with other agencies, such as the New Mexico State Land office or the Natural Resource Conservation Service (USDA-NRCS) to map and discuss the feasibility of implementing a vegetation treatment to reduce the amount of cholla if warranted.

RFOs Upland and Biotic Standard Assessment Summary Worksheet						
SITE 63038-ANTELOPE-E083						
Legal Land Desc	SWSE 17 0060S 0170E Meridian 23		Acreage		890	
Ecosite	070CY113NM SHALLOW CP-3		Photo Taken		Y	
Watershed	13060005020 ARROYO DEL MACHO					
Observers	ORTEGA & ARNOLD		Observation Date		11/30/2010	
County Soil Survey	NM632 LINCOLN		Soil Var/Taxad			
Soil Map Unit	013		Soil Taxon Name		DEAMA	
Texture Class	NM632 L		Soil Phase		DEAMA-PASTURA	
Texture Modifier	NM632 VERY COBBLY LOAM					
Observed Avg Annual Precipitation			Observed Avg Growing Season Precipitation			
NOAA Annual Precipitation			NOAA Growing Season Precipitation			
NOAA Avg Annual Precipitation			NOAA Avg Growing Season Precipitation			
Disturbances and Animal Use:						
Part 2. Attributes and Indicators						
		Departure from Ecological Site Description/Ecological Reference Areas				
Attribute	Indicators	Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S H	Rills					X
Comments:						
S H	Water Flow Patterns				X	
Comments:	Past evidence, now short and stable					
S H	Pedestals and/or Terracettes				X	
Comments:						
S H	Bare Ground				X	
Comments:	Gravelly					

S H	Gullies					X
Comments:	as expected for this site					
S	Wind-scoured, Blowouts, and/or Deposition Areas					X
Comments:						
H	Litter Movement				X	
Comments:						
S H B	Soil Surface Resistance to Erosion				X	
Comments:						
S H B	Soil Surface Loss or Degradation				X	
Comments:						
H	Plant Community Composition and Distribution Relative to Infiltration and Runoff					X
Comments:						
S H B	Compaction Layer					X
Comments:						
B	Functional/Structural Groups				X	
Comments:	increasing cholla					
B	Plant Mortality/Decadence					X
Comments:						
H B	Litter Amount				X	
Comments:						
B	Annual Production				X	
Comments:						
B	Invasive Plants				X	
Comments:	Cholla encroachment					
B	Reproductive Capability of Perennial Plants					X
Comments:						
S	Physical/Chemical/Biological Crusts					X
Comments:						
B	Wildlife Habitat				X	
Comments:						

B	Wildlife Populations				X	
Comments:						
B	Special Status Species Habitat				X	
Comments:	eagles per Dan Baggao					
B	Special Status Species Populations				X	
Comments:						

Part 3. Summary

A. Indicator Summary - Each of the indicators are associated with one or more of the attributes below. An indicator is placed in a category (columns) above and summed for each of the Standard Attributes.

Standard Attribute		Extreme	Moderate to Extreme	Moderate	Slight to Moderate	None to Slight
S	Soil	0	0	0	5	5
H	Hydrologic	0	0	0	7	4
B	Biotic	0	0	0	10	3

B. Attribute Summary. In this table, the Extreme and Extreme to Moderate columns in the table above are merged for the *Does not Meet* column, Moderate becomes *May Need More Info*, and Slight to Moderate and None to Slight merge to form the *Meets* columns. Values from the table are summarized below. Space is provided for rationale of the determination. This space should most certainly be used when the determination by the ID team conflicts with the summarized values. Provide the sources of information that lead to the determination. X out the appropriate box for each attribute to denote final agreed upon determination by the ID team.

Attribute	Rationale	Does Not Meet	May Need More Info	Meets
Soil		0	0	10
Hydrologic		0	0	11
Biotic		0	0	13

Site Notes:

Determination of Public Land (Rangeland) Health for 63038 LITTLE HASPEROS

The Record of Decision (ROD) for the New Mexico Standards for Public Land Health and Guidelines for Livestock Grazing Management (dated January 2001) adopted three Standards for Public Land Health. These are (1) Upland Sites Standard, (2) Biotic Communities, Including Native, Threatened, Endangered, and Special Status Species Standard and (3) Riparian Sites Standard.

The ROD also established a process for the BLM Field Offices for implementation. Through a public participation process, the Roswell Field Office developed and adopted indicators to use in conjunction with existing monitoring data to assess these standards.

Field assessment worksheets and other available data that evaluate the local indicators were completed for this allotment. Based on these assessments, it is my determination that public land within Little Hasperos, allotment #63038, meets the (1) Upland Sites standard and (2) Biotic Communities, including Native, Threatened, Endangered, and Special Status Species standard. There are no public land Riparian areas on this allotment, therefore this standard was not addressed.

/s/ J. Howard Parman
Assistant Field Manager

03/07/2011
Date